

Datamate **L-Tek**

Datamate **J-Tek**

Datamate  Lok

Latches and Jackscrews – which is which?

To help with your Datamate Connector identification and selection, here is a guide to the types of fixings available in the range, covering Latches, Jackscrews and the 101Lok fixing options...

Datamate L-Tek – the original

L-Tek is short for **Latching** Technology – mating connectors are given added separation force using a choice of latches.



Advantages:

- Fast mating.
- Established product, stocked in depth.
- Less board real estate used than the other Datamate options.
- Single row connectors available.



Disadvantages:

- Locking latches require a specific tool to un-mate the connectors.
- No board hold-down options.
- Only available in a selection of pin counts:
 - 2 to 7, 17 & 22 (Single row)
 - 4 to 20, 26, 34, 44 (Double row)

Datamate L-Tek – the range



Locking Latch (also just referred to as Latch):

- Positively locks connectors together.
- Requires a tool to un-mate the connectors ([Z80-299](#) or [T5746](#)).



Friction Latch (note: no “window”):

- No tool required to separate connectors
- Adds 2-2.5N to the separation force.
- **Obsolete from 7th September 2018**



No Latch assembled:

- Most commonly used on board-to-board assemblies.



Female:

- Note the bump used to mate with the latch.

Datamate L-Tek – other notes

- All styles of connector are available in a choice of RoHS compliant finishes:
 - Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
 - Gold over the complete contact
- PCB mounting connectors (Through Tail and SMT) are currently still available with Tin/Lead plated tails as a Non-RoHS option.
- Use the online [Browser](#) to help select the parts required.

Datamate J-Tek – the flexible range

J-Tek is short for **Jackscrew** Technology – this range has a wide choice of jackscrew styles, based on an M2 thread.



Advantages:

- Wide range of secure fixing and locating styles possible.
- Board mount, panel mount and guide pin options.
- Full range of 04 to 50 contacts available in the majority of designs.



Disadvantages:

- Jacking connectors together can be time-consuming, and requires a screwdriver or hex/allen key.
- Double row connectors only.

Datamate J-Tek – highlights (Male)



Vertical Jackscrew:

- Available with or without board mount fixing underneath.
- Slotted screwdriver available for use with the board mount nuts ([Z80-298](#)).



Horizontal Jackscrew:

- Also available with or without board mount fixing underneath.



Reverse Fix:

- For use with male cable connectors, when the female is on the PCB.
- M2 Male thread not shown at this angle, sits inside the moulding.



No Jackscrew:

- Option available for customers that do not require any fixing, but have to use J-Tek to get the right number of contacts.

Datamate J-Tek – highlights (Female)



Jackscrew:

- Available in either hexagonal socket for hex/allen key (as shown), or with a screwdriver slot and hexagonal outer shape.



Female Guide Pin:

- Mates with any threaded male jackscrew.
- Used in board-to-board for blind mating, and has board mount fixing.



Reverse Fix:

- When using board mounted female with cable male connectors.
- With board mount fixing.



No Jackscrew:

- More commonly used on board-to-board layouts, where the boards are fixed by other methods.

Datamate J-Tek – other notes

- Other jackscrew styles are available – have a look at the online [Browser](#) for all the current options.
- If you need something faster than screwing together jackscrews – read on!
- As with L-Tek, all styles of connector are available in a choice of RoHS compliant finishes:
 - Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
 - Gold over the complete contact
- And also, PCB mounting connectors (Through Tail and SMT) are currently still available with Tin/Lead plated tails as a Non-RoHS option.

Datamate 101Lok – fast, secure mating

101Lok is a variant on the J-Tek, unique to Harwin. It utilises a bayonet-style design to combine the advantages of both fixing systems.



Advantages:

- Fast mating and unmating – no screwing required!
- Board mount options available.
- Full range of 04 to 50 contacts available in the majority of designs.



Disadvantages:

- Double row connectors only.

Datamate 101Lok – in pictures



Male 101Lok:

- Available in Vertical or Horizontal orientations, both with or without board mount fixing.



Female 101Lok:

- Slotted and hex/allen key versions available.

Datamate 101Lok – other notes

- See more information on the products available in the 101Lok range on our [Featured Product webpage](#).
- Samples are available [on request](#) if you want to try any of these connectors.
- Finish options are the same as the rest of Datamate: all styles of connector are available in a choice of RoHS compliant finishes...
 - Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
 - Gold over the complete contact
- ... and PCB mounting connectors (Through Tail and SMT) are currently still available with Tin/Lead plated tails as a Non-RoHS option.

Happy to Help

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